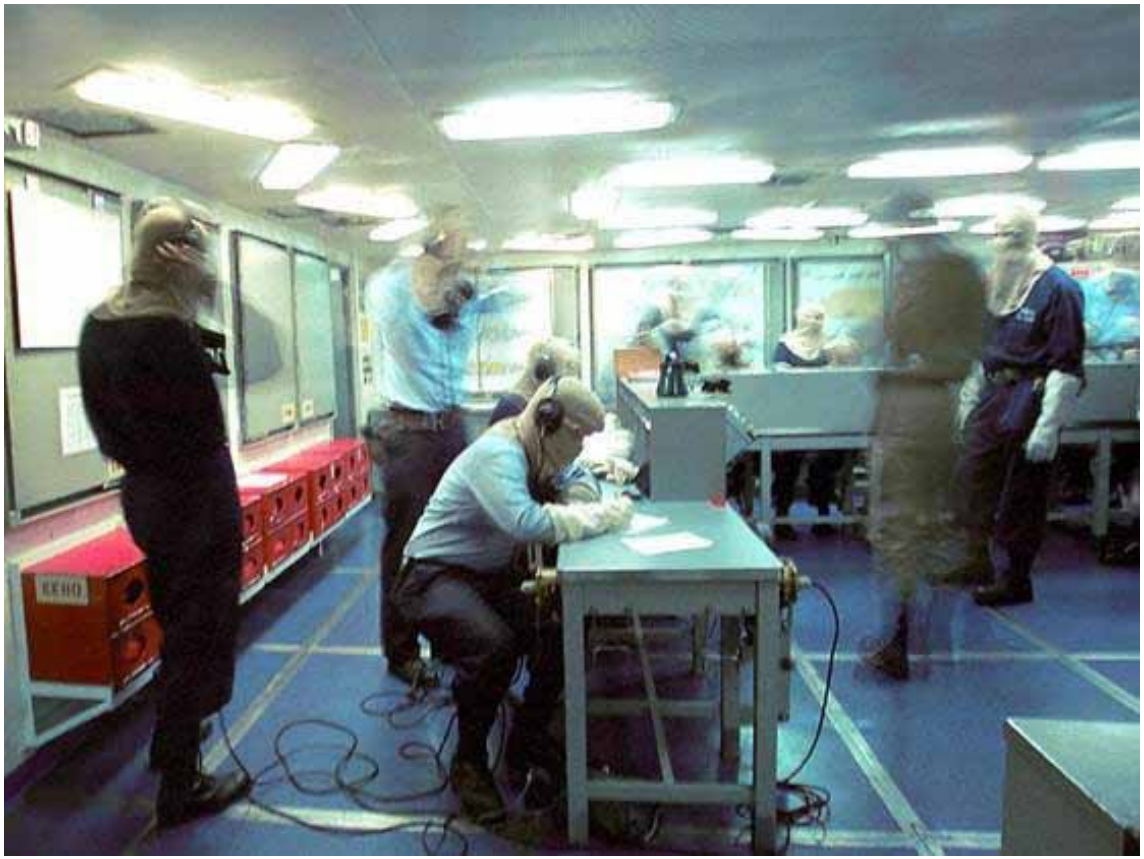
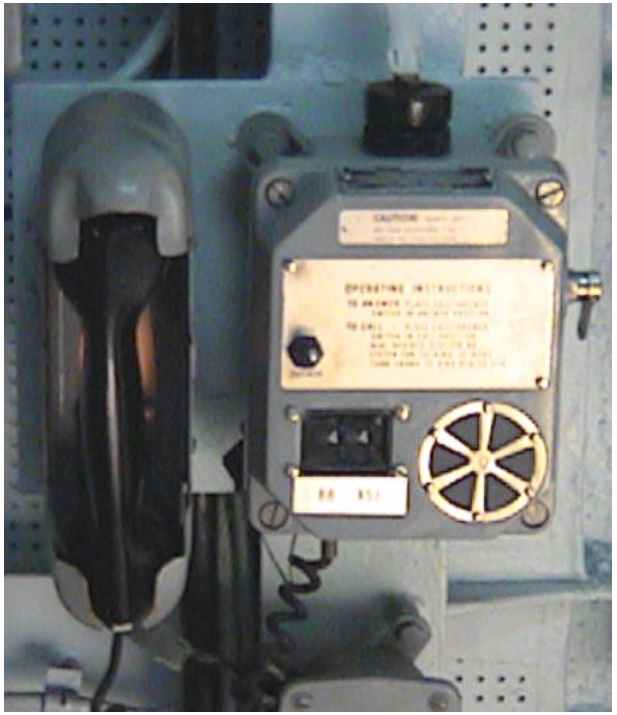
Sound Power (SP) Telephone System





Sound-Powered Telephone System

- Sound-Powered Telephone System is the most common means of communication for DC
- It requires no external source of power
- Primary means of communications between vital stations (Command and Control, Damage Control, Engineering, Aircraft, Weapons, and Secondary Conn)

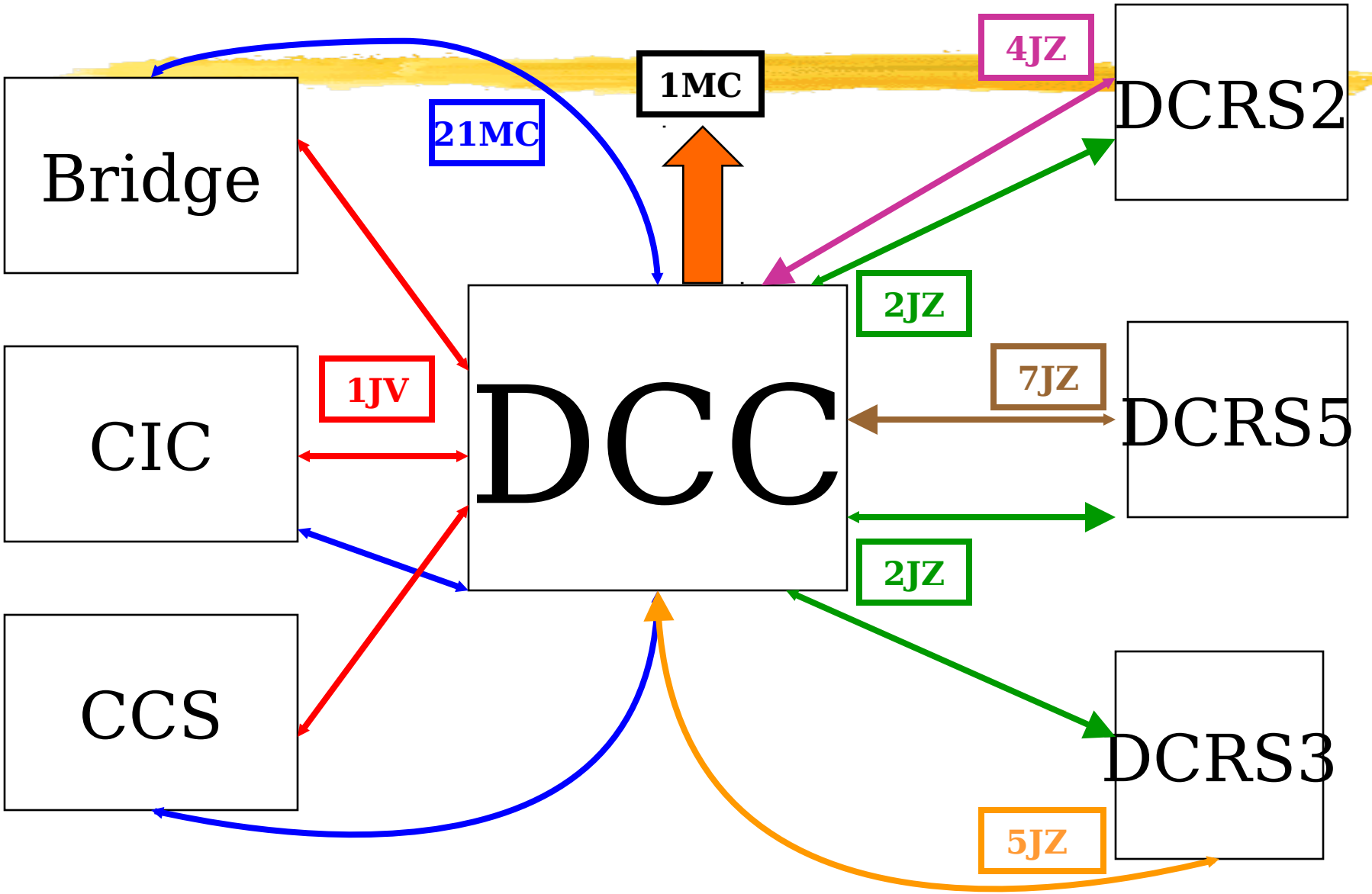
Sound-Powered Telephone System

- The sound-powered telephone system is made up of five types of circuits
  - Primary
  - Auxiliary
  - Supplementary
  - Emergency
  - Miscellaneous

Sound-Powered Telephone System

- Primary circuits
  - All circuits necessary for vital battle stations
  - Circuits are designated JA through JZ; for example
    - 2JZ - Main DC circuit
    - 3JZ – DCRS 1/Main deck repair circuit
    - 4JZ – DCRS 2/Forward repair circuit
    - 5JZ – DCRS 3/After repair circuit
    - 6JZ – DCRS 4/Amidships repair circuit
    - 7JZ – DCRS 5/Engineer's repair circuit
    - 8JZ – DCRS 7s/Flight deck repair circuit
    - JA - Captain’s battle circuit
    - 1JV – Maneuvering & Docking

DC Central Comms



Sound-Powered Telephone System

- Auxiliary circuits
  - Alternate means of communications in the event of damage to the associated primary circuit
  - Wiring is run in separate cables installed as far as possible from the primary cables
  - An Auxiliary circuit is identified by a primary circuit designation - preceded by the letter "X”
    - XJA Auxiliary Captain's Battle
    - X2JZ Auxiliary Damage and Stability Control
    - X1JV Auxiliary Maneuvering and Docking

Sound-Powered Telephone System

- Supplementary circuits
  - Communication for various battle stations and their subordinate stations for operating and service functions
  - Used to Enhance Comms
- Examples of supplementary circuits are
  - 2JV - Engineer's circuit, (Engineers)
  - 3JV - Engineer's circuit, (Boilers)
  - 4JV - Engineer's circuit, (Fuel and Stability)
  - 4JV - Engineer's circuit, (Fuel and Stability)
  - 5JV - Engineer's circuit, (Electrical)

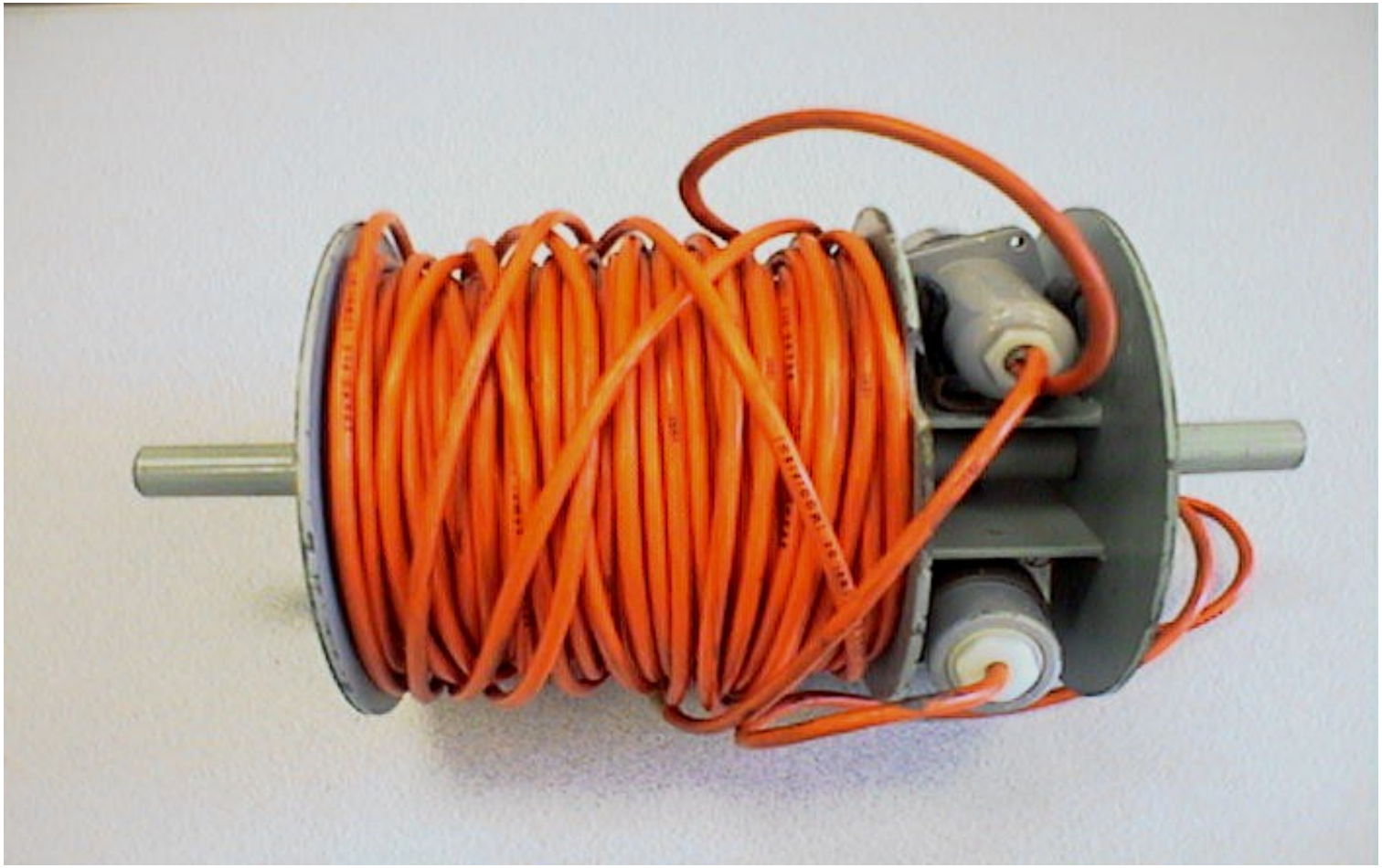
Sound-Powered Telephone System

- Emergency circuits
  - Provide a means of rigging communication lines between vital battle stations
  - Emergency circuit designations are also preceded by the letter "X", but have no letter after "J”
    - X40J - Casualty communication circuit
    - X50J – AFFF Station communication circuit

Sound-Powered Telephone System

- Emergency circuits (cont.)
  - Emergency circuit of main concern to DC is the X40J
  - X40J circuit consists of permanent vertical riser cables installed at vital below-deck battle stations
  - One 200-foot telephone cable reel is stowed in each DCRS as part of the Emergency Communication Kit. The cable can be salt and pepper or orange.

X40J portable reel



Sound-Powered Telephone System

- Miscellaneous circuits
  - Any sound-powered telephone circuit not included in the above classifications
  - Other interior communications circuits, announcing systems, and various alarm circuits

Sound-Powered Telephone System

- Sound Powered Phone Directory
  - Directory is comprised of 7 parts
    - Part I - Alphabetical list
    - Part II - Ship control circuits
    - Part II - Ship control circuits
    - Part IV - Weapons control circuits
    - Part V - Primary flight control circuits
    - Part VI - Manning circuits under various conditions
    - Part VII - Listing of Sound-Powered Telephone Circuit X40J communications between subdivisions on the DC deck when ZEBRA is set